

Shinpei Ogawa

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

1,106
citations

16
h-index

32
g-index

65
ext. papers

1,396
ext. citations

3.1
avg, IF

4.73
L-index

#	Paper	IF	Citations
51	Control of light emission by 3D photonic crystals. <i>Science</i> , 2004 , 305, 227-9	33.3	300
50	Metal-Insulator-Metal-Based Plasmonic Metamaterial Absorbers at Visible and Infrared Wavelengths: A Review. <i>Materials</i> , 2018 , 11,	3.5	94
49	Wavelength selective uncooled infrared sensor by plasmonics. <i>Applied Physics Letters</i> , 2012 , 100, 021113,4	3.4	91
48	Semiconductor three-dimensional and two-dimensional photonic crystals and devices. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 726-735	2	62
47	Mushroom plasmonic metamaterial infrared absorbers. <i>Applied Physics Letters</i> , 2015 , 106, 041105	3.4	45
46	Wavelength- or Polarization-Selective Thermal Infrared Detectors for Multi-Color or Polarimetric Imaging Using Plasmonics and Metamaterials. <i>Materials</i> , 2017 , 10,	3.5	41
45	Wavelength selective wideband uncooled infrared sensor using a two-dimensional plasmonic absorber. <i>Optical Engineering</i> , 2013 , 52, 127104	1.1	36
44	Graphene Surface Acoustic Wave Sensor for Simultaneous Detection of Charge and Mass. <i>ACS Sensors</i> , 2018 , 3, 200-204	9.2	31
43	Polarization-selective uncooled infrared sensor with asymmetric two-dimensional plasmonic absorber. <i>Optical Engineering</i> , 2014 , 53, 107110	1.1	24
42	Graphene on metal-insulator-metal-based plasmonic metamaterials at infrared wavelengths. <i>Optics Express</i> , 2018 , 26, 5665-5674	3.3	23
41	High responsivity middle-wavelength infrared graphene photodetectors using photo-gating. <i>Applied Physics Letters</i> , 2018 , 113, 061102	3.4	22
40	Analysis of thermal stress in wafer bonding of dissimilar materials for the introduction of an InP-based light emitter into a GaAs-based three-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2003 , 82, 3406-3408	3.4	21
39	Giant Dirac point shift of graphene phototransistors by doped silicon substrate current. <i>AIP Advances</i> , 2016 , 6, 035113	1.5	21
38	Broadband polarization-selective uncooled infrared sensors using tapered plasmonic micrograting absorbers. <i>Sensors and Actuators A: Physical</i> , 2018 , 269, 563-568	3.9	19
37	Enhanced photogating via pyroelectric effect induced by insulator layer for high-responsivity long-wavelength infrared graphene-based photodetectors operating at room temperature. <i>Applied Physics Express</i> , 2019 , 12, 025001	2.4	16
36	High-performance graphene/InSb heterojunction photodetectors for high-resolution mid-infrared image sensors. <i>Applied Physics Letters</i> , 2020 , 117, 173102	3.4	16
35	Graphene Plasmonics in Sensor Applications: A Review. <i>Sensors</i> , 2020 , 20,	3.8	16

34	Direct fabrication and characterization of high-aspect-ratio plasmonic nanogratings using tapered-sidewall molds. <i>Optical Materials Express</i> , 2017 , 7, 633	2.6	15
33	Detection Wavelength Control of Uncooled Infrared Sensors Using Two-Dimensional Lattice Plasmonic Absorbers. <i>Sensors</i> , 2015 , 15, 13660-9	3.8	15
32	RF-MEMS switch with through-silicon via by the molten solder ejection method. <i>Sensors and Actuators A: Physical</i> , 2012 , 181, 77-80	3.9	15
31	Absorption Properties of Simply Fabricated All-Metal Mushroom Plasmonic Metamaterials Incorporating Tube-Shaped Posts for Multi-Color Uncooled Infrared Image Sensor Applications. <i>Photonics</i> , 2016 , 3, 9	2.2	14
30	Photocurrent enhancement of graphene phototransistors using p \bar{n} junction formed by conventional photolithography process. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 110307	1.4	14
29	Acoustic carrier transportation induced by surface acoustic waves in graphene in solution. <i>Applied Physics Express</i> , 2016 , 9, 045104	2.4	14
28	Theoretical investigation of all-metal-based mushroom plasmonic metamaterial absorbers at infrared wavelengths. <i>Optical Engineering</i> , 2015 , 54, 127104	1.1	12
27	Effect of graphene on plasmonic metasurfaces at infrared wavelengths. <i>AIP Advances</i> , 2013 , 3, 112127	1.5	12
26	Effects of structural fluctuations on three-dimensional photonic crystals operating at near-infrared wavelengths. <i>Journal of Applied Physics</i> , 2002 , 91, 513	2.5	12
25	Low dark current and high-responsivity graphene mid-infrared photodetectors using amplification of injected photo-carriers by photo-gating. <i>Optics Letters</i> , 2019 , 44, 2598-2601	3	10
24	High-responsivity turbostratic stacked graphene photodetectors using enhanced photogating. <i>Applied Physics Express</i> , 2019 , 12, 122010	2.4	9
23	Spontaneous emission control by 17 layers of three-dimensional photonic crystals. <i>Electronics Letters</i> , 2008 , 44, 377	1.1	8
22	Polarization-selective uncooled infrared sensor using a one-dimensional plasmonic grating absorber 2015 ,		7
21	Multi-color imaging with silicon-on-insulator diode uncooled infrared focal plane array using through-hole plasmonic metamaterial absorbers 2015 ,		7
20	Broadband photoresponse of graphene photodetector from visible to long-wavelength infrared wavelengths. <i>Optical Engineering</i> , 2019 , 58, 1	1.1	7
19	Photogating for small high-responsivity graphene middle-wavelength infrared photodetectors. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	7
18	Millimeter-wave transmission line with through-silicon via for RF-MEMS devices. <i>IEICE Electronics Express</i> , 2013 , 10, 20130565-20130565	0.5	6
17	Fano resonance in asymmetric-period two-dimensional plasmonic absorbers for dual-band uncooled infrared sensors. <i>Optical Engineering</i> , 2016 , 55, 117105	1.1	6

16	Broadband photoresponse of graphene photodetector from visible to long-wavelength infrared wavelengths 2018 ,		4
15	RF-MEMS Switch using Carbon Nanotube Composite Gold Electroplating. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 165-169	0.2	4
14	Wavelength selective uncooled infrared sensor using triangular-lattice plasmonic absorbers 2013 ,		3
13	Wavelength selective wideband uncooled infrared sensor using a two-dimensional plasmonic absorber 2013 ,		3
12	Carrier density modulation and photocarrier transportation of graphene/InSb heterojunction middle-wavelength infrared photodetectors. <i>Optical Engineering</i> , 2020 , 59,	1.1	3
11	Elimination of Unwanted Modes in Wavelength-Selective Uncooled Infrared Sensors with Plasmonic Metamaterial Absorbers using a Subtraction Operation. <i>Materials</i> , 2019 , 12,	3.5	3
10	Graphene-based deep-ultraviolet photodetectors with ultrahigh responsivity using chemical vapor deposition of hexagonal boron nitride to achieve photogating. <i>Optical Materials Express</i> , 2022 , 12, 2090	2.6	3
9	Three-dimensional plasmonic metamaterial absorbers based on all-metal structures 2015 ,		2
8	Polarization selective uncooled infrared sensor using an asymmetric two-dimensional plasmonic absorber 2014 ,		2
7	Three-dimensional plasmonic metamaterial absorbers for high-performance wavelength selective uncooled infrared sensors 2014 ,		2
6	Extraordinary Optical Transmission by Hybrid Phonon-Plasmon Polaritons Using hBN Embedded in Plasmonic Nanoslits. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
5	High-performance mushroom plasmonic metamaterial absorbers for infrared polarimetric imaging 2017 ,		1
4	Bandwidth control of wavelength-selective uncooled infrared sensors using two-dimensional plasmonic absorbers 2016 ,		1
3	Turbostratic stacked graphene-based high-responsivity mid-wavelength infrared detector using an enhanced photogating effect. <i>Optical Materials Express</i> , 2022 , 12, 458	2.6	1
2	Dual-band uncooled infrared sensors employing Fano resonance in plasmonic absorbers 2016 ,		1
1	Reflection control by metal-dielectric-metal metasurfaces using offset micropatches at infrared wavelengths. <i>OSA Continuum</i> , 2020 , 3, 1568	1.4	